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2. A neural network application for attack detection in computer networks
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1 Towards improving packet probing techniques

Matthew J. Luckie, Anthony J. McGregor, Hans-Werner Braun
November 2001 IMW '01: Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement

Publisher: ACM

Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, cited by, index terms

Packet probing is an important Internet measurement technique, supporting the investigation of packet delay, path, and loss. Current packet probing techniques use Internet Protocols such as the Internet Control Message Protocol (ICMP), the User Datagram ...

Keywords: network path, packet delay, packet probing techniques

2 Topology discovery for public IPv6 networks

Daniel G. Waddington, Fangzhe Chang, Ramesh Viswanathan, Bin Yao
July 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 3

Publisher: ACM

Full text available: pdf(182.34 KB) Additional Information: full citation, abstract, references, index terms

In just three decades the Internet has grown from a small experimental research network into a complex network of routers, switches, and hosts. Understanding the topology of such large scale networks is essential to the procurement of good architectural ...

Keywords: IPv6, IPv6 network topology discovery, network measurement, network probing, topology inference

3 Secure data transmission in mobile ad hoc networks

Panagiotis Papadimitratos, Zygmunt J. Haas
September 2003 WiSe '03: Proceedings of the 2nd ACM workshop on Wireless security

Publisher: ACM

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The vision of nomadic computing with its ubiquitous access has stimulated much interest in the Mobile Ad Hoc Networking (MANET) technology. However, its proliferation strongly depends on the availability of security provisions, among other factors. In ...

Keywords: MANET security, multi-path routing, secure message transmission, secure routing, secure routing protocol

4 Congestion control for high bandwidth-delay product networks

Dina Katabi, Mark Handley, Charlie Rohrs

October 2002 ACM SIGCOMM Computer Communication Review, Volume 32 Issue 4

Publisher: ACM

Full text available: pdf(543.64 KB) Additional Information: full citation, abstract, references, cited by, index terms

Theory and experiments show that as the per-flow product of bandwidth and latency increases, TCP becomes inefficient and prone to instability, regardless of the queuing scheme. This failing becomes increasingly important as the Internet evolves to incorporate ...

Keywords: congestion control, high-speed networks, large bandwidth-delay product

5 Learning attack strategies from intrusion alerts

Peng Ning, Dingbang Xu

October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer and communications security

Publisher: ACM

Full text available: pdf(248.17 KB) Additional Information: full citation, abstract, references, cited by, index terms

Understanding strategies of attacks is crucial for security applications such as computer and network forensics, intrusion response, and prevention of future attacks. This paper presents techniques to automatically learn attack strategies from correlated ...

Keywords: alert correlation, intrusion detection, profiling attack strategies

6 A high-level programming environment for packet trace anonymization and transformation

Ruoming Pang, Vern Paxson

August 2003 SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available: pdf(251.27 KB) Additional Information: full citation, abstract, references, cited by, index terms

Packet traces of operational Internet traffic are invaluable to network research, but public sharing of such traces is severely limited by the need to first remove all sensitive information. Current trace anonymization technology leaves only the packet ...

Keywords: anonymization, internet, measurement, network intrusion detection, packet trace, privacy, transformation

7 Simulating realistic network worm traffic for worm warning system design and testing

Michael Liljenstam, David M. Nicol, Vincent H. Berk, Robert S. Gray
October 2003 WORM '03: Proceedings of the 2003 ACM workshop on Rapid malcode
Publisher: ACM

Full text available: pdf(308.41 KB) Additional Information: full citation, abstract, references, cited by, index terms

Reproducing the effects of large-scale worm attacks in a laboratory setup in a realistic and reproducible manner is an important issue for the development of worm detection and defense systems. In this paper, we describe a worm simulation model we are ...

Keywords: code red, network modeling and simulation, network security, slammer, worm detection systems, worms

8 Security problems in 802.11-based networks

Russ Housley, William Arbaugh
May 2003 Communications of the ACM, Volume 46 Issue 5
Publisher: ACM

Full text available: pdf(90.15 KB) html(20.14 KB) Additional Information: full citation, abstract, references, cited by, index terms

Assessing inherent wireless network security deficiencies and seeking solutions.

9 Constructing attack scenarios through correlation of intrusion alerts

Peng Ning, Yun Cui, Douglas S. Reeves
November 2002 CCS '02: Proceedings of the 9th ACM conference on Computer and communications security
Publisher: ACM

Full text available: pdf(184.18 KB) Additional Information: full citation, abstract, references, cited by, index terms

Traditional intrusion detection systems (IDSs) focus on low-level attacks or anomalies, and raise alerts independently, though there may be logical connections between them. In situations where there are intensive intrusions, not only will actual alerts ...

Keywords: alert correlation, attack scenarios, intrusion detection

10 Congestion control for high bandwidth-delay product networks

Dina Katabi, Mark Handley, Charlie Rohrs
August 2002 SIGCOMM '02: Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for

computer communications
Publisher: ACM

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Theory and experiments show that as the per-flow product of bandwidth and latency increases, TCP becomes inefficient and prone to instability, regardless of the queuing scheme. This failing becomes increasingly important as the Internet evolves to incorporate ...

Keywords: congestion control, high-speed networks, large bandwidth-delay product

11 Designing a Safe Network Using Firewalls
Paul Wouters
August 1997 Linux Journal, Volume 1997 Issue 40es
Publisher: Specialized Systems Consultants, Inc.

Full text available: html(26.47 KB) Additional Information: full citation, abstract, cited by, index terms

It is by no means necessary to purchasse specialized firewall hardware or even software. A Linux server--running on a $400 386 PC-- provides as much protection as most commercial firewalls, with much greater flexibility and eas

12 A process control approach to cyber attack detection
August 2001 Communications of the ACM, Volume 44 Issue 8
Publisher: ACM

Full text available: pdf(113.70 KB) html(33.65 KB) Additional Information: full citation, references, cited by, index terms, review

13 Automatically inferring patterns of resource consumption in network traffic
Cristian Estan, Stefan Savage, George Varghese
August 2003 SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM

Full text available: pdf(260.43 KB) Additional Information: full citation, abstract, references, cited by, index terms

The Internet service model emphasizes flexibility -- any node can send any type of traffic at any time. While this design has allowed new applications and usage models to flourish, it also makes the job of network management significantly more challenging. ...

Keywords: data mining, network monitoring, traffic measurement

14

Enhancing byte-level network intrusion detection signatures with context
Robin Sommer, Vern Paxson
October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer and communications security
Publisher: ACM
Full text available: pdf(217.88 KB) Additional Information: full citation, abstract, references, cited by, index terms

Many network intrusion detection systems (NIDS) use byte sequences as signatures to detect malicious activity. While being highly efficient, they tend to suffer from a high false-positive rate. We develop the concept of *contextual signatures* as ...

Keywords: bro, evaluation, network intrusion detection, pattern matching, security, signatures, snort

15 A distributed monitoring mechanism for wireless sensor networks
Chih-fan Hsin, Mingyan Liu
September 2002 WiSE '02: Proceedings of the 1st ACM workshop on Wireless security
Publisher: ACM
Full text available: pdf(318.53 KB) Additional Information: full citation, abstract, references, cited by, index terms

In this paper we focus on a large class of wireless sensor networks that are designed and used for monitoring and surveillance. The single most important mechanism underlying such systems is the monitoring of the network itself, that is, the control ...

Keywords: monitor and surveillance, security, system design, wireless sensor networks

16 Reliable network connections
Victor C. Zandy, Barton P. Miller
September 2002 MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking
Publisher: ACM
Full text available: pdf(272.01 KB) Additional Information: full citation, abstract, references, cited by, index terms

We present two systems, reliable sockets (rocks) and reliable packets (racks), that provide transparent network connection mobility using only user- level mechanisms. Each system can detect a connection failure within seconds of its occurrence, preserve ...

Keywords: network connection mobility

17 Bench-style network research in an Internet instance Laboratory
Paul Barford, Larry Landweber
July 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 3
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Full text available: pdf(567.36 KB) Additional Information: full citation, abstract, references, cited by

Network researchers employ a variety of experimental methods and tools including analytic modeling techniques, simulators, and widely depolyed measurement infrastructures. It is natural to assume that the overall scope of network research may be limited ...

18 Minimum-energy broadcast in all-wireless networks: NP-completeness and distribution issues

Mario Čagalj, Jean-Pierre Hubaux, Christian Enz

September 2002 MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available: pdf(315.03 KB) Additional Information: full citation, abstract, references, cited by, index terms

In all-wireless networks a crucial problem is to minimize energy consumption, as in most cases the nodes are battery-operated. We focus on the problem of power-optimal broadcast, for which it is well known that the broadcast nature of the radio transmission ...

Keywords: broadcast algorithms, distributed algorithms, energy efficiency, minimum-energy networks, wireless ad hoc networks

19 Internet intrusions: global characteristics and prevalence

Vinod Yegneswaran, Paul Barford, Johannes Ullrich

June 2003 ACM SIGMETRICS Performance Evaluation Review, Volume 31 Issue 1

Publisher: ACM

Full text available: pdf(899.44 KB) Additional Information: full citation, abstract, references, cited by, index terms

Network intrusions have been a fact of life in the Internet for many years. However, as is the case with many other types of Internet-wide phenomena, gaining insight into the *global* characteristics of intrusions is challenging. In this paper we ...

Keywords: internet performance and monitoring, network security, wide area measurement

20 An on-demand secure routing protocol resilient to byzantine failures

Baruch Awerbuch, David Holmer, Cristina Nita-Rotaru, Herbert Rubens

September 2002 WiSE '02: Proceedings of the 1st ACM workshop on Wireless security

Publisher: ACM

Full text available: pdf(233.97 KB) Additional Information: full citation, abstract, references, cited by, index terms

An ad hoc wireless network is an autonomous self-organizing system ofmobile nodes connected by wireless links where nodes not in directrange can communicate via intermediate nodes. A common technique usedin routing protocols for ad hoc wireless networks ...

Keywords: ad hoc wireless networks, byzantine failures, on-demand routing, security

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21 A knowledge plane for the internet

David D. Clark, Craig Partridge, J. Christopher Ramming, John T. Wroclawski

August 2003 SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: pdf(106.91 KB)

We propose a new objective for network research: to build a fundamentally different sort of network that can assemble itself given high level instructions, reassemble itself as requirements change, automatically discover when something goes wrong, and ...

Keywords: cognition, knowledge plane, network applications, network configuration

22 Trajectory sampling for direct traffic observation

N. G. Duffield, Matthias Grossglauser

June 2001 IEEE/ACM Transactions on Networking (TON), Volume 9 Issue 3

Publisher: IEEE Press

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: pdf(251.55 KB)

Traffic measurement is a critical component for the control and engineering of communication networks. We argue that traffic measurement should make it possible to obtain the spatial flow of traffic through the domain, i.e., the paths followed by packets ...

Keywords: Hash functions, Internet traffic measurement, packet sampling, traffic engineering

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23 Towards an accurate AS-level traceroute tool

Zhuoqing Morley Mao, Jennifer Rexford, Jia Wang, Randy H. Katz
August 2003 SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM

Full text available: pdf(176.89 KB) Additional Information: full citation, abstract, references, cited by, index terms

Traceroute is widely used to detect routing problems, characterize end-to-end paths, and discover the Internet topology. Providing an accurate list of the Autonomous Systems (ASes) along the forwarding path would make traceroute even more valuable to ...

Keywords: AS-level path, border gateway protocol, internet topology, network measurements

24 Internet intrusions: global characteristics and prevalence

Vinod Yegneswaran, Paul Barford, Johannes Ullrich
June 2003 SIGMETRICS '03: Proceedings of the 2003 ACM SIGMETRICS international conference on Measurement and modeling of computer systems
Publisher: ACM

Full text available: pdf(699.44 KB) Additional Information: full citation, abstract, references, cited by, index terms

Network intrusions have been a fact of life in the Internet for many years. However, as is the case with many other types of Internet-wide phenomena, gaining insight into the *global* characteristics of intrusions is challenging. In this paper we ...

Keywords: internet performance and monitoring, network security, wide area measurement

25 Best-path vs. multi-path overlay routing

David G. Andersen, Alex C. Snoeren, Hari Balakrishnan
October 2003 IMC '03: Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement
Publisher: ACM

Full text available: pdf(142.64 KB) Additional Information: full citation, abstract, references, cited by, index terms

Time-varying congestion on Internet paths and failures due to software, hardware, and configuration errors often disrupt packet delivery on the Internet.Many aproaches to avoiding these problems use multiple paths between two network locations. These ...

Keywords: measurement, multi-path routing, networking, overlay networks

26 Policies for sharing distributed probabilistic beliefs

Christopher Leckie, Ramamohanarao Kotagiri
February 2003 ACSC '03: Proceedings of the 26th Australasian computer science conference - Volume 16. Volume 16
Publisher: Australian Computer Society, Inc.
Full text available: pdf(81.53 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we present several general policies for deciding when to share probabilistic beliefs between agents for distributed monitoring. In order to evaluate these policies, we have formulated an application in network intrusion detection as a ...

Keywords: multi-agent systems, network intrusion detection

27 Incentive-based modeling and inference of attacker intent, objectives, and strategies
Peng Liu, Wanyu Zang
October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer and communications security
Publisher: ACM
Full text available: pdf(332.06 KB) Additional Information: full citation, abstract, references, cited by, index terms

Although the ability to model and infer Attacker Intent, Objectives and Strategies (AIOS) may dramatically advance the literature of risk assessment, harm prediction, and predictive or proactive cyber defense, existing AIOS inference techniques are ad ...

Keywords: attack prediction, computer security, game theory

28 Sensor-based intrusion detection for intra-domain distance-vector routing
Vishal Mittal, Giovanni Vigna
November 2002 CCS '02: Proceedings of the 9th ACM conference on Computer and communications security
Publisher: ACM
Full text available: pdf(267.99 KB) Additional Information: full citation, abstract, references, cited by

Detection of routing-based attacks is difficult because malicious routing behavior can be identified only in specific network locations. In addition, the configuration of the signatures used by intrusion detection sensors is a time-consuming and error-prone ...

Keywords: intrusion detection, network topology, routing security

29 Towards NIC-based intrusion detection
M. Otey, S. Parthasarathy, A. Ghoting, G. Li, S. Narravula, D. Panda
August 2003 KDD '03: Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining
Publisher: ACM
Full text available: pdf(103.59 KB) Additional Information: full citation, abstract, references, index terms

We present and evaluate a NIC-based network intrusion detection system. Intrusion detection at the NIC makes the system potentially tamper-proof and is naturally extensible to work in a distributed setting. Simple anomaly detection and signature detection ...

Keywords: NICs, data mining, network interface cards, network intrusion detection, network security

30 Using signal processing to analyze wireless data traffic

Craig Partridge, David Cousins, Alden W. Jackson, Rajesh Krishnan, Tushar Saxena, W. Timothy Strayer

September 2002 WiSE '02: Proceedings of the 1st ACM workshop on Wireless security

Publisher: ACM

Full text available: pdf(535.20 KB) Additional Information: full citation, abstract, references, cited by, index terms

Experts have long recognized that theoretically it was possible to perform traffic analysis on encrypted packet streams by analyzing the timing of packet arrivals (or transmissions). We report on experiments to realize this possiblity using basic signal ...

Keywords: encryption, signal processing, traffic analysis, wireless networks

31 Ariadne: a secure on-demand routing protocol for ad hoc networks

Yih-Chun Hu, Adrian Perrig, David B. Johnson

September 2002 MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available: pdf(308.15 KB) Additional Information: full citation, abstract, references, cited by, index terms

a secure on-demand routing protocol for ad hoc networks.

Keywords: ad hoc network routing, routing, security

32 Bitmap algorithms for counting active flows on high speed links

Cristian Estan, George Varghese, Mike Fisk

October 2003 IMC '03: Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available: pdf(330.81 KB) Additional Information: full citation, abstract, references, cited by, index terms

This paper presents a family of bitmap algorithms that address the problem of counting the number of distinct header patterns (flows) seen on a high speed link. Such counting can be used to detect DoS attacks and port scans, and to solve measurement ...

Keywords: counting flows, network traffic measurement

33 Specification-based anomaly detection: a new approach for detecting network intrusions

R. Sekar, A. Gupta, J. Frullo, T. Shanbhag, A. Tiwari, H. Yang, S. Zhou
November 2002 CCS '02: Proceedings of the 9th ACM conference on Computer and communications security

Publisher: ACM

Full text available: pdf(127.45 KB) Additional Information: full citation, abstract, references, cited by, index terms

Unlike signature or misuse based intrusion detection techniques, anomaly detection is capable of detecting novel attacks. However, the use of anomaly detection in practice is hampered by a high rate of false alarms. Specification-based techniques have ...

Keywords: anomaly detection, intrusion detection, network monitoring

34 IDMaps: a global internet host distance estimation service

Paul Francis, Sugih Jamin, Cheng Jin, Yixin Jin, Danny Raz, Yuval Shavitt, Lixia Zhang
October 2001 IEEE/ACM Transactions on Networking (TON), Volume 9 Issue 5

Publisher: IEEE Press

Full text available: pdf(267.64 KB) Additional Information: full citation, abstract, references, cited by, index terms

There is an increasing need to quickly and efficiently learn network distances, in terms of metrics such as latency or bandwidth, between Internet hosts. For example, Internet content providers often place data and server mirrors throughout the Internet ...

Keywords: Distributed algorithms, modeling, network service, scalability

35 Balancing cooperation and risk in intrusion detection

Deborah Frincke
February 2000 ACM Transactions on Information and System Security (TISSEC), Volume 3 Issue 1

Publisher: ACM

Full text available: pdf(236.44 KB) Additional Information: full citation, abstract, references, cited by, index terms

Early systems for networked intrusion detection (or, more generally, intrusion or misuse management) required either a centralized architecture or a centralized decision-making point, even when the data gathering was distributed. More recently, researchers ...

Keywords: access control models, authorization mechanisms, collaborative systems

36 The case for TCP/IP puzzles

Wu-chang Feng
October 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 4
Publisher: ACM
Full text available: pdf(256.51 KB) Additional Information: full citation, abstract, references, cited by

Since the Morris worm was unleashed in 1988, distributed denial-of-service (DDoS) attacks via worms and viruses have continued to periodically disrupt the Internet. Client puzzles have been proposed as one mechanism for protecting protocols against denial ...

37 Dynamic behavior of slowly-responsive congestion control algorithms

Deepak Bansal, Hari Balakrishnan, Sally Floyd, Scott Shenker
October 2001 ACM SIGCOMM Computer Communication Review, Volume 31 Issue 4
Publisher: ACM
Full text available: pdf(249.78 KB) Additional Information: full citation, abstract, references, cited by, index terms

The recently developed notion of *TCP-compatibility* has led to a number of proposals for alternative congestion control algorithms whose long-term throughput as a function of a steady-state loss rate is similar to that of TCP. Motivated by the ...

38 TCP westwood: Bandwidth estimation for enhanced transport over wireless links

Saverio Mascolo, Claudio Casetti, Mario Gerla, M. Y. Sanadidi, Ren Wang
July 2001 MobiCom '01: Proceedings of the 7th annual international conference on Mobile computing and networking
Publisher: ACM
Full text available: pdf(344.76 KB) Additional Information: full citation, abstract, references, cited by, index terms

TCP Westwood (TCPW) is a sender-side modification of the TCP congestion window algorithm that improves upon the performance of TCP Reno in wired as well as wireless networks. The improvement is most significant in wireless networks with lossy links, ...

39 A framework for constructing features and models for intrusion detection systems

Wenke Lee, Salvatore J. Stolfo
November 2000 ACM Transactions on Information and System Security (TISSEC), Volume 3 Issue 4
Publisher: ACM
Full text available: pdf(187.03 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Intrusion detection (ID) is an important component of infrastructure protection mechanisms. Intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. Given these requirements and the complexities of today's network environments, ...

Keywords: data mining, feature construction, intrusion detection

40 Feedback based routing

Dapeng Zhu, Mark Gritter, David R. Cheriton
January 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 1
Publisher: ACM

Full text available: pdf(323.07 KB) Additional Information: full citation, abstract, references, cited by, index terms

In this paper, we describe the problems that affect availability in BGP, such as vulnerability to attacks, slow convergence time, and lack of scalability. These problems arise from the basic assumption of BGP: every router has to cooperate to make routing ...

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41 Enhancement of a WLAN-based internet service in Korea

Youngkyu Choi, Jeongyeup Paek, Sunghyun Choi, Go Woon Lee, Jae Hwan Lee, Hanwook Jung

September 2003 WMASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available: pdf(774.23 KB) Additional Information: full citation, abstract, references, index terms

A wireless LAN (WLAN)-based Internet service, called NESPOT, of Korea Telecom (KT), the biggest telecommunication and Internet service company in Korea, has been operational since early 2002. As the numbers of subscribers and deployed access points (APs) ...

Keywords: IEEE 802.11, LAN, hotspot service, wireless internet service provider (WISP)

42 Securing IPv6 neighbor and router discovery

Jari Arkko, Tuomas Aura, James Kempf, Vesa-Matti Mäntylä, Pekka Nikander, Michael Roe

September 2002 WiSE '02: Proceedings of the 1st ACM workshop on Wireless security

Publisher: ACM

Full text available: pdf(113.58 KB) Additional Information: full citation, abstract, references, cited by, index terms

When IPv6 Neighbor and Router Discovery functions were defined, it was assumed that the local link would consist of mutually trusting nodes. However, the recent developments in public wireless networks, such as WLANs, have radically changed the situation. ...

Keywords: autoconfiguration, detection, duplicate address, identity-based cryptosystems, neighbor discovery, router discovery

43 TCP/IP and security software applications

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William Natale
April 2001 Proceedings of the seventh annual consortium for computing in small colleges central plains conference on The journal of computing in small colleges
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(67.85 KB) Additional Information: full citation, abstract, references, index terms

The TCP/IP protocol suite refers to a family of protocols. The designers of TCP/IP divided the job of a full protocol suite into a number of tasks delineated as layers (show in Figure 1 below). Each layer has a different, but specific task in communication. ...

44 Access for sale: a new class of worm
Stuart E. Schechter, Michael D. Smith
October 2003 WORM '03: Proceedings of the 2003 ACM workshop on Rapid malcode
Publisher: ACM
Full text available: pdf(95.11 KB) Additional Information: full citation, abstract, references, cited by, index terms

The damage inflicted by viruses and worms has been limited by the risks that come with the more lucrative payloads. The problem facing authors of self-reproducing malware is that monetizing each intrusion requires the author to risk communication with ...

Keywords: cryptography, economics, incentives, security, threat modelling, virus, worm

45 Port Scans and Ping Sweeps Explained
Lawrence Teo
November 2000 Linux Journal, Volume 2000 Issue 80es
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(9.62 KB) Additional Information: full citation, abstract, references, index terms

Lawrence Teo explains two common network probes and what can be done to detect them.

46 QoS's downfall: at the bottom, or not at all!
Jon Crowcroft, Steven Hand, Richard Mortier, Timothy Roscoe, Andrew Warfield
August 2003 RIPQoS '03: Proceedings of the ACM SIGCOMM workshop on Revisiting IP QoS: What have we learned, why do we care?
Publisher: ACM
Full text available: pdf(161.07 KB) Additional Information: full citation, abstract, references, cited by

Quality of Service (QoS) has been touted as a technological requirement for many different networks at many different times. However, very few (if any) schemes for providing it have ever been successful, despite a huge amount of research in the area ...

47 UNICORN: misuse detection for UNICOS

Gary G. Christoph, Kathleen A. Jackson, Michael C. Neuman, Christine L. B. Siciliano, Dennis D. Simmonds, Cathy A. Stallings, Joseph L. Thompson
December 1995 Supercomputing '95: Proceedings of the 1995 ACM/ IEEE conference on Supercomputing (CDROM) - Volume 00, Volume 00
Publisher: ACM
Full text available: html(43.88 KB) Additional Information: full citation, abstract, references, cited by, index terms

An effective method for detecting computer misuse is the automatic auditing and analysis of on-line user activity. This activity is reflected in the system audit record, by changes in the vulnerability posture of the system configuration, and in other ...

Keywords: anomaly detection, computer misuse, auditing, UNICOS, computer security, hacking, intrusion detection, security logs

48 TCP/IP and security software applications

William Natale
April 2001 Proceedings of the twelfth annual CCSC South Central conference on The journal of computing in small colleges
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(67.85 KB) Additional Information: full citation, abstract, references, index terms

The TCP/IP protocol suite refers to a family of protocols. The designers of TCP/IP divided the job of a full protocol suite into a number of tasks delineated as layers (show in Figure 1 below). Each layer has a different, but specific task in communication. ...

49 Internet indirection infrastructure

Ion Stoica, Daniel Adkins, Shelley Zhuang, Scott Shenker, Sonesh Surana
October 2002 ACM SIGCOMM Computer Communication Review, Volume 32 Issue 4
Publisher: ACM
Full text available: pdf(303.69 KB) Additional Information: full citation, abstract, references, cited by, index terms

Attempts to generalize the Internet's point-to-point communication abstraction to provide services like multicast, anycast, and mobility have faced challenging technical problems and deployment barriers. To ease the deployment of such services, this ...

Keywords: abstraction, architecture, indirection, internet, scalable

50 TCP/IP and security software applications

William Natale
March 2001 Journal of Computing Sciences in Colleges, Volume 16 Issue 3
Publisher: Consortium for Computing Sciences in Colleges
Additional Information:

Full text available: pdf(67.85 KB) full citation, abstract, references, index terms

The TCP/IP protocol suite refers to a family of protocols. The designers of TCP/IP divided the job of a full protocol suite into a number of tasks delineated as layers (show in Figure 1 below). Each layer has a different, but specific task in communication. ...

51 Hop-count filtering: an effective defense against spoofed DDoS traffic

Cheng Jin, Haining Wang, Kang G. Shin

October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer and communications security

Publisher: ACM

Full text available: pdf(213.86 KB) Additional Information: full citation, abstract, references, cited by, index terms

IP spoofing has been exploited by Distributed Denial of Service (DDoS) attacks to (1) conceal flooding sources and localities in flooding traffic, and (2) coax legitimate hosts into becoming reflectors, redirecting and amplifying flooding traffic. Thus, ...

Keywords: DDoS defense, TTL, host-based, networking, security

52 Abstraction-based intrusion detection in distributed environments

Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang

November 2001 ACM Transactions on Information and System Security (TISSEC), Volume 4 Issue 4

Publisher: ACM

Full text available: pdf(590.61 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Abstraction is an important issue in intrusion detection, since it not only hides the difference between heterogeneous systems, but also allows generic intrusion-detection models. However, abstraction is an error-prone process and is not well supported ...

Keywords: Cooperative information systems, heterogeneous systems, intrusion detection, misuse detection

53 Characterizing large DNS traces using graphs

Charles D. Cranor, Emden Gansner, Balachander Krishnamurthy, Oliver Spatscheck

November 2001 IMW '01: Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement

Publisher: ACM

Full text available: pdf(2.62 MB) Additional Information: full citation, abstract, references, cited by, index terms

The increasing deployment of overlay networks that rely on DNS tricks has led to added interest in examining DNS traffic. In this paper we report on a characterization of DNS traffic gathered over a period of several weeks at Internet Gateway Routers ...

54 Internet indirection infrastructure

Ion Stoica, Daniel Adkins, Shelley Zhuang, Scott Shenker, Sonesh Surana
August 2002 SIGCOMM '02: Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM

Full text available: pdf(303.69 KB) Additional Information: full citation, abstract, references, cited by, index terms

Attempts to generalize the Internet's point-to-point communication abstraction to provide services like multicast, anycast, and mobility have faced challenging technical problems and deployment barriers. To ease the deployment of such services, this ...

Keywords: abstraction, architecture, indirection, internet, scalable

55 Dynamic behavior of slowly-responsive congestion control algorithms

Deepak Bansal, Hari Balakrishnan, Sally Floyd, Scott Shenker
August 2001 SIGCOMM '01: Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM

Full text available: pdf(249.78 KB) Additional Information: full citation, abstract, references, cited by, index terms

The recently developed notion of *TCP-compatibility* has led to a number of proposals for alternative congestion control algorithms whose long-term throughput as a function of a steady-state loss rate is similar to that of TCP. Motivated by the ...

56 The case for TCP/IP puzzles

Wu-chang Feng
August 2003 FDNA '03: Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture
Publisher: ACM

Full text available: pdf(256.51 KB) Additional Information: full citation, abstract, references, cited by

Since the Morris worm was unleashed in 1988, distributed denial-of-service (DDoS) attacks via worms and viruses have continued to periodically disrupt the Internet. Client puzzles have been proposed as one mechanism for protecting protocols against denial ...

57 A remotely accessible networking laboratory

Joseph D. Sloan
December 2002 Journal of Computing Sciences in Colleges. Volume 18 Issue 2
Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(39.80 KB) Additional Information: full citation, abstract, references, cited by, index terms

This paper describes Lander University's efforts to create a remotely accessible networking and telecommunications laboratory. By supplying remote access, the laboratory provides an authentic laboratory experience, gives greater access to equipment, ...

58 The discipline of Internet forensics

Hal Berghel
August 2003 Communications of the ACM, Volume 46 Issue 8
Publisher: ACM

Additional Information: full citation, abstract, cited by, index terms

Full text available: pdf(166.59 KB) html(25.47 KB)

A well-defined field of study and practice has evolved as a result of network hacker activity.

59 The last mile: making the broadband connection

Dennis Fowler
March 2000 netWorker, Volume 4 Issue 1
Publisher: ACM

Full text available: pdf(915.54 KB) html(24.17 KB) Additional Information: full citation, index terms

60 Understanding BGP misconfiguration

Ratul Mahajan, David Wetherall, Tom Anderson
August 2002 SIGCOMM '02: Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM

Full text available: pdf(312.33 KB) Additional Information: full citation, abstract, references, cited by, index terms

It is well-known that simple, accidental BGP configuration errors can disrupt Internet connectivity. Yet little is known about the frequency of misconfiguration or its causes, except for the few spectacular incidents of widespread outages. In this paper, ...

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61 Measuring ISP topologies with rocketfuel
Neil Spring, Ratul Mahajan, David Wetherall
August 2002 SIGCOMM '02: Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM
Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, cited by, index terms

To date, realistic ISP topologies have not been accessible to the research community, leaving work that depends on topology on an uncertain footing. In this paper, we present new Internet mapping techniques that have enabled us to directly measure router-level ...

62 A firewall configuration strategy for the protection of computer networked labs in a college setting
Dennis Guster, Charles Hall
October 2001 Journal of Computing Sciences in Colleges, Volume 17 Issue 1
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(32.54 KB) Additional Information: full citation, references, cited by, index terms

63 Testing and evaluating computer intrusion detection systems
Robert Durst, Terrence Champion, Brian Witten, Eric Miller, Luigi Spagnuolo
July 1999 Communications of the ACM, Volume 42 Issue 7
Publisher: ACM
Full text available: pdf(220.41 KB) html(35.64 KB) Additional Information: full citation, cited by, index terms, review

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64 Censorship and the Internet: a Singapore perspective
Peng Hwa Ang, Berlinda Nadarajan
June 1996 Communications of the ACM, Volume 39 Issue 6
Publisher: ACM
Full text available: pdf(598.12 KB) Additional Information: full citation, references, cited by, index terms, review

65 Understanding BGP misconfiguration
Ratul Mahajan, David Wetherall, Tom Anderson
October 2002 ACM SIGCOMM Computer Communication Review, Volume 32 Issue 4
Publisher: ACM
Full text available: pdf(312.33 KB) Additional Information: full citation, abstract, references, cited by, index terms

It is well-known that simple, accidental BGP configuration errors can disrupt Internet connectivity. Yet little is known about the frequency of misconfiguration or its causes, except for the few spectacular incidents of widespread outages. In this paper, ...

66 Internet security: firewalls and beyond
Rolf Oppliger
May 1997 Communications of the ACM, Volume 40 Issue 5
Publisher: ACM
Full text available: pdf(339.15 KB) Additional Information: full citation, references, cited by, index terms, review

67 Paranoid penguin: stealthful sniffing, intrusion detection and logging
Mick Bauer
October 2002 Linux Journal, Volume 2002 Issue 102
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(17.98 KB) Additional Information: full citation, index terms

68 Measuring ISP topologies with rocketfuel
Neil Spring, Ratul Mahajan, David Wetherall
October 2002 ACM SIGCOMM Computer Communication Review, Volume 32 Issue 4
Publisher: ACM
Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, cited by, index terms

To date, realistic ISP topologies have not been accessible to the research community, leaving work that depends on topology on an uncertain footing. In this paper, we present new Internet mapping techniques that

have enabled us to directly measure router-level ...

69 A framework for scalable global IP-anycast (GIA)
Dina Katabi, John Wroclawski
August 2000 SIGCOMM '00: Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication
Publisher: ACM
Full text available: pdf(306.33 KB) Additional Information: full citation, abstract, references, cited by, index terms

This paper proposes GIA, a scalable architecture for global IP-anycast. Existing designs for providing IP-anycast must either globally distribute routes to individual anycast groups, or confine each anycast group to a pre-configured topological region. ...

Keywords: Internet, anycast, architecture, routing, scalable

70 IP lookups using multiway and multicolumn search
Butler Lampson, Venkatachary Srinivasan, George Varghese
June 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 3
Publisher: IEEE Press
Full text available: pdf(179.06 KB) Additional Information: full citation, references, cited by, index terms, review

71 A framework for scalable global IP-anycast (GIA)
Dina Katabi, John Wroclawski
October 2000 ACM SIGCOMM Computer Communication Review, Volume 30 Issue 4
Publisher: ACM
Full text available: pdf(306.33 KB) Additional Information: full citation, abstract, references, cited by, index terms

This paper proposes GIA, a scalable architecture for global IP-anycast. Existing designs for providing IP-anycast must either globally distribute routes to individual anycast groups, or confine each anycast group to a pre-configured topological region. ...

Keywords: Internet, anycast, architecture, routing, scalable

72 Terrain database interoperability issues in training with distributed interactive simulation
Guy A. Schiavone, S. Sureshchandran, Kenneth C. Hardis
July 1997 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 7 Issue 3
Publisher: ACM
Additional Information: full citation, abstract,

Full text available: pdf(443.34 KB) references, cited by, index terms, review

In Distributed Interactive Simulation (DIS), each participating node is responsible for maintaining its own model of the synthetic environment. Problems may arise if significant inconsistencies are allowed to exist between these separate world views, ...

Keywords: distributed interactive simulation, terrain databases

73 Monitoring and early warning for internet worms
Cliff Changchun Zou, Lixin Gao, Weibo Gong, Don Towsley
October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer and communications security
Publisher: ACM
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After the Code Red incident in 2001 and the SQL Slammer in January 2003, it is clear that a simple self-propagating worm can quickly spread across the Internet, infects most vulnerable computers before people can take effective countermeasures. The fast ...

Keywords: early detection, monitoring, worm propagation

74 A taxonomy of computer worms
Nicholas Weaver, Vern Paxson, Stuart Staniford, Robert Cunningham
October 2003 WORM '03: Proceedings of the 2003 ACM workshop on Rapid malcode
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To understand the threat posed by computer worms, it is necessary to understand the classes of worms, the attackers who may employ them, and the potential payloads. This paper describes a preliminary taxonomy based on worm target discovery and selection ...

Keywords: attackers, computer worms, mobile malicious code, motivation, taxonomy

75 ACM SIGMOBILE Mobile Computing and Communications Review: Volume 7 Issue 3
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Peter G. Neumann

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Publisher: ACM
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Mark D. Corner, Brian D. Noble
September 2002 MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking
Publisher: ACM
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Keywords: cryptographic file systems, mobile computing, stackable file systems, transient authentication

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Chris Weaver, Rajeev Krishna, Lisa Wu, Todd Austin
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80 Code red worm propagation modeling and analysis
Cliff Changchun Zou, Weibo Gong, Don Towsley
November 2002 CCS '02: Proceedings of the 9th ACM conference on Computer and communications security
Publisher: ACM

Full text available: pdf(197.17 KB) Additional Information: full citation, abstract, references, cited by, index terms

The Code Red worm incident of July 2001 has stimulated activities to model and analyze Internet worm propagation. In this paper we provide a careful analysis of Code Red propagation by accounting for two factors: one is the dynamic countermeasures taken ...

Keywords: epidemic model, internet worm modeling, two-factor worm model

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November 2000 ACM Transactions on Information and System Security (TISSEC), Volume 3 Issue 4

Publisher: ACM

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In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this evaluation represents a significant and monumental undertaking, there are a number ...

Keywords: computer security, intrusion detection, receiver operating curves (ROC), software evaluation

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